POLYMORPHISMS IN THE 5' LEADER CISTRON OF THE β_2 -ADRENERGIC RECEPTOR

Abstract of the Invention

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A novel polymorphic site in the 5' leader cistron of the β_2 -adrenergic receptor (β_2AR) gene is disclosed. The polymorphisms present at this site result in different levels of inhibition of translation of β_2AR mRNA. Compositions and methods for genotyping this polymorphic site are disclosed. In addition, methods for using this genotype information are disclosed, including predicting genetic predisposition to a disease modified by β_2AR expression and predicting a patient's bronchodilating response to β_2 -agonists.